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"RCRA/TSCA"
"Permits Team"

Mr. David Domingo EPA Project Coordinator U.S. EPA 1200 Sixth Avenue, M/S HW-106 Seattle, WA 98101

Mr. Domingo:

Following is the Bimonthly Progress Report required by the 3008(h) Order for RFI activities completed at the Burlington Environmental Inc. (dba Philip Environmental) "Philip" Pier 91 Facility for the months of November and December 1996.

Description of Work Completed

- · Submitted fourth quarter 1996 groundwater monitoring data (enclosed).
- · Met with Ecology to discuss site logs for chargeable oversight completed to date.

Summary of All Findings

No significant findings occurred during this period.

Projected Work for Next Reporting Period

- Complete first quarter 1997 groundwater sampling and water/product levels in January.
- · Submit first quarter 1997 groundwater monitoring data.
- Receive draft MTCA Order from Ecology.

If you have any questions, please contact me at (206) 227-6121.

Respectfully,

John Stiller

Project Coordinator

cc: Galen Tritt, Ecology NWRO

USEPA RCRA 3012473

CAS Number MTCA Method B (ug/l)		75-71-8 1600	74-87-3 3.37	75-01-4 0.023	74-83-9 11.2	75-00-3 $PQL = 10$	75-69-4 2400	76-13-1 480000	67-64-1 800	75-15-0 800
		Dichloro- difluoro-	Chloro-	Vinyl	Bromo-	Chloro-	Trichloro- fluoro-	1,1,2-trichloro- 1,2,2-trifluoro-		Carbon
	Sample	methane	methane	chloride	methane	ethane	methane	ethane	Acetone	disulfide
Well Number	Date	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
CP-103A	10/11/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-103B	10/15/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-104A	10/15/96	1.8	<1	1.8	<1	<1	<1	<5	<5	<1
CP-104B	10/15/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-106A	10/10/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-106B	10/10/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-107	10/15/96	2	<1	1.8	<1	<1	<1	<5	<5	<1
CP-108A	10/11/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-108B	10/11/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-109	10/8/96	<1	<1	<1	<1	27	<1	<5	<5	<1
CP-110	10/8/96	<1	<1	<1	<1	12	<1	<5	<5	3.7
CP-111	10/11/96	<1	<1	<1	<1	<1	<1	<5	18	<1
CP-112	10/9/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-113	10/9/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-114	10/11/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-115A	10/15/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-115B	10/15/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-116	10/9/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-117	10/9/96	<5	<5	21	<5	160	<5	<25	<25	<5
CP-118	10/8/96	<1	<1	<1	<1	7.4	<1	<5	<5	4.6
CP-119	10/10/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-121	10/11/96	<1	<1	<1	<1	9.2	<1	<5	<5	<1
CP-122B	10/10/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-205A	10/10/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
CP-205B	10/10/96	<1	<1	<1	<1	<1	<1	<5	<5	<1
W-10	10/15/96	<1	<1	<1	<1	<1	<1	<5	<5	<1

Total Petroleum Hydrocarbons in Groundwater 4th Quarter 1996 Pier 91 Facility

CAS Number		68334-30-5	86290-81-5
MTCA Method	A (ug/l)	1000	1000
		20年代的第二人称: 115年第二人 在19 年至日	
		TPH as	TPH as
	Sample	Diesel	Gasoline
Well Number	Date	(mg/l)	(mg/l)
CP-103A	10/11/96	< 0.3	<1
CP-103B	10/15/96	<0.3	< 0.62
CP-104A	10/15/96	< 0.3	< 0.62
CP-104B	10/15/96	< 0.3	< 0.62
CP-106A	10/10/96	<0.3	<0.62
CP-106B	10/10/96	<0.3	<0.62
CP-107	10/15/96	<0.3	<1
CP-108A	10/11/96	<0.3	< 0.62
CP-108B	10/11/96	<0.3	< 0.62
CP-109	10/8/96	< 0.3	1.1
CP-110	10/8/96	< 0.3	<1
CP-111	10/11/96	< 0.3	< 0.62
CP-112	10/9/96	<0.3	< 0.62
CP-113	10/9/96	< 0.3	< 0.62
CP-114	10/11/96	<0.3	<0.62
CP-115A	10/15/96	<0.3	< 0.62
CP-115B	10/15/96	<0.3	<0.62
CP-116	10/9/96	<0.3	<0.62
CP-117	10/9/96	<0.3	8.9
CP-118	10/8/96	<0.3	<1
CP-119	10/10/96	<0.3	< 0.62
CP-121	10/11/96	<0.3	< 0.62
CP-122B	10/10/96	<0.3	<0.62
CP-205A	10/10/96	<0.3	< 0.62
CP-205B	10/10/96	<0.3	< 0.62
W-10	10/15/96	< 0.3	<1

CAS Number	en and the	75-09-2	156-60-5	75-34-3	108-05-4	156-59-2	78-93-3	67-66-3	71-55-6	56-23-5
MTCA Method B (ug/l)		5.83	160	800	8000	80	4800	7.17	7200	0.337
	Sample	Methylene chloride	trans-1,2- DCE	1,1-DCA	Vinyl acetate	cis-1,2- DCE	2-Butanone	Chloroform	1,1,1-TCA	Carbon tetra- chloride
Well Number	Date	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
CP-103A	10/11/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-103B	10/15/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-104A	10/15/96	<5	<1	1.8	<1	<1	<5	<1	<1	<1
CP-104B	10/15/96	<5	<1	4.9	<1	<1	<5	<1	<1	<1
CP-106A	10/10/96	<5	<1	<1	<1	<1	<5	1.5	<1	<1
CP-106B	10/10/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-107	10/15/96	<5	<1	1.6	<1	1.4	<5	<1	<1	<1
CP-108A	10/11/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-108B	10/11/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-109	10/8/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-110	10/8/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-111	10/11/96	<5	<1	<1	<1	<1	10	<1	<1	<1
CP-112	10/9/96	1200	<1	1	<1	<1	<5	<1	<1	<1
CP-113	10/9/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-114	10/11/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-115A	10/15/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-115B	10/15/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-116	10/9/96	<5	<1	5.5	<1	1	<5	<1	<1	<1
CP-117	10/9/96	<25	<5	67	<5	73	<25	19	<5	<5
CP-118	10/8/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-119	10/10/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-121	10/11/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-122B	10/10/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-205A	10/10/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-205B	10/10/96	<5	<1	<1	<1	<1	<5	<1	<1	<1
W-10	10/15/96	<5	<1	<1	<1	<1	<5	<1	<1	<1

CAS Number		107-06-2	71-43-2	79-01-6	78-87-5	75-27-4	110-75-8	10061-01-5	108-10-1	108-88-3
MTCA Method B (ug/l)		0.481	1.51	3.98	0.643	0.706	PQL = 10	PQL = 5	400	1600
		The Sales of the S			1,2- Dichloro	Bromo-dichloro	2-Chloro- ethyl-vinyl	cis-1,3- Dichloro-	4-Methyl-2-	Talasas
Well Number	Sample Date	1,2-DCA	Benzene	TCE (ug/l)	propane (ug/l)	methane (ug/l)	ether (ug/l)	propene (ug/l)	pentanone (ug/l)	Toluene (ug/l)
CP-103A	10/11/96	(ug/l) <1	(ug/l) <1	<2	(ug/l) <1	<1	<1	<1	<5	<2
CP-103A CP-103B	10/11/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-103B	10/15/96	<1	<1	<2	<1	<1	<1	<1	<5	2.9
CP-104A CP-104B	10/15/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-104B	10/13/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-106B	10/10/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-100B	10/15/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-107 CP-108A	10/13/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-108B	10/11/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-108B	10/11/96	<1	34	<2	<1	<1	<1	<1	<5	21
CP-110	10/8/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-111	10/11/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-112	10/9/96	<1	<1	<2	<1	<1	<1	<1	<5	4.1
CP-112	10/9/96	<1	<1	<2	<1	<1	<1	<1	<5	5.8
CP-114	10/11/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-115A	10/15/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-115B	10/15/96	<1	<1	<2	<1	<1	<1	<1	<5	10
CP-116	10/9/96	<1	21	<2	<1	<1	<1	<1	<5	2.3
CP-117	10/9/96	<5	36	<10	<5	<5	<5	<5	<25	7400
CP-118	10/8/96	<1	20	<2	<1	<1	<1	<1	<5	<2
CP-119	10/10/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-121	10/11/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-122B	10/10/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-205A	10/10/96	<1	<1	<2	<1	<1	<1	<1	<5	<2
CP-205B	10/10/96	<1	<1	<2	<1	<1	<1	<1	<5	8.7
W-10	10/15/96	<1	8.7	<2	<1	<1	<1	<1	<5	2.7

CAS Number		10061-02-6	79-00-5	127-18-4 0.858	591-78-6 $POL = 50$	124-48-1 0.521	108-90-7 160	100-41-4 800	1330-20-7 16000	95-47-6 16000
MTCA Method B (ug/l)	Sample	PQL = 5 Trans-1,3- Dichloro- propene	0.768 1,1,2- trichloro- ethane	PCE	2-Hexanone	Dibromo- chloro methane	Chloro- benzene	Ethyl- benzene	m,p-Xylenes	o-Xylene
Well Number	Date	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l) <1
CP-103A	10/11/96	<1	<1	<1	<5	<1	<1	<1	<1 <1	<1
CP-103B	10/15/96	<1	<1	<1	<5	<1	<1	<1		
CP-104A	10/15/96	<1	<1	<1	<5	<1	<1	<1	3.5	1.3
CP-104B	10/15/96	<1	<1	<1	<5	<1	<1	<1	<1	<1
CP-106A	10/10/96	<1	<1	<1	<5	<1	<1	<1	<1	<1 <1
CP-106B	10/10/96	<1	<1	<1	<5	<1	<1	<1	<1	
CP-107	10/15/96	<1	<1	<1	<5	<1	<1	<1	<1	<1
CP-108A	10/11/96	<1	<1	<1	<5	<1	<1	<1	<1	<1
CP-108B	10/11/96	<1	<1	<1	<5	<1	<1	<1	<1	<1
CP-109	10/8/96	<1	<1	<1	<5	<1	<1	3.9	7.5	3.1
CP-110	10/8/96	<1	<1	<1	<5	<1	<1	<1	<1	<1
CP-111	10/11/96	<1	<1	<1	<5	<1	<1	<1	<1	<1
CP-112	10/9/96	<1	<1	<1	<5	<1	<1	1.2	23	5.2
CP-113	10/9/96	<1	<1	<1	<5	<1	<1	<1	3.7	<1
CP-114	10/11/96	<1	<1	<1	<5	<1	<1	<1	<1	<1
CP-115A	10/15/96	<1	<1	<1	<5	<1	<1	4.2	20	<1
CP-115B	10/15/96	<1	<1	<1	<5	<1	<1	<1	<1	<1
CP-116	10/9/96	<1	<1	<1	<5	<1	<1	4.8	14	16
CP-117	10/9/96	<5	<5	<5	<25	<5	<5	8900	17900	4300
CP-118	10/8/96	<1	<1	<1	<5	<1	<1	5.1	1.6	2.8
CP-119	10/10/96	<1	<1	<1	<5	<1	<1	<1	<1	<1
CP-121	10/11/96	<1	<1	<1	<5	<1	<1	<1	<1	<1
CP-122B	10/10/96	<1	<1	<1	<5	<1	<1	<1	<1	<1
CP-205A	10/10/96	<1	<1	<1	<5	<1	<1	<1	1.2	<1
CP-205B	10/10/96	<1	<1	<1	<5	<1	<1	<1	<1	<1
W-10	10/15/96	<1	<1	<1	<5	<1	<1	<1	<1	<1

CAS Number	CONTRACTOR OF	100-42-5	75-25-2	79-34-5	541-73-1	106-46-7	95-50-1	95-20-3
MTCA Method B (ug/l)		1.46	5.54	0.219	PQL = 10	1.82	7.2	32
Well Number	Sample Date	Styrene (ug/l)	Bromoform (ug/l)	1,1,2,2- tetrachloro- ethane (ug/l)	1,3- Dichloro- benzene (ug/l)	1,4- Dichloro- benzene (ug/l)	1,2- Dichloro- benzene (ug/l)	Naphthalene (ug/l)
CP-103A	10/11/96	<1	<1	<3	<1	<1	<1	<5
CP-103B	10/15/96	<1	<1	3	<1	<1	<1	<5
CP-104A	10/15/96	<1	<1	<3	<1	<1	<1	<5
CP-104B	10/15/96	<1	<1	<3 **	<1	<1	<1	<5
CP-106A	10/10/96	<1	<1	<3	<1	<1	<1	<5
CP-106B	10/10/96	<1	<1	<3	<1	<1	<1	<5
CP-107	10/15/96	<1	<1	<3	<1	<1	<1	<5
CP-108A	10/11/96	<1	<1	<3	<1	<1	<1	<5
CP-108B	10/11/96	<1	<1	<3	<1	<1	<1	<5
CP-109	10/8/96	<1	<1	3	<1	<1	<1	<5
CP-110	10/8/96	<1	<1	<3	<1	<1	<1	<5
CP-111	10/11/96	<1	<1	<3	<1	<1	<1	<5
CP-112	10/9/96	<1	<1	<3	<1	<1	<1	<5
CP-113	10/9/96	<1	<1	<3	<1	<1	<1	<5
CP-114	10/11/96	<1	<1	<3	<1	<1	<1	<5
CP-115A	10/15/96	<1	<1	<3	<1	<1	<1	<5
CP-115B	10/15/96	<1	<1	<3	<1	<1	<1	<5
CP-116	10/9/96	<1	<1	<3	<1	<1	6.3	29
CP-117	10/9/96	<5	<5	<15	<5	<5	<5	50
CP-118	10/8/96	<1	<1	<3 <	<1	<1	<1	11
CP-119	10/10/96	<1	<1	<3	<1	<1	<1	<5
CP-121	10/11/96	<1	<1	<3	<1	<1	<1	<5
CP-122B	10/10/96	<1	<1	<3	<1	<1	<1	<5
CP-205A	10/10/96	<1	<1	<3 □	<1	<1	<1	<5
CP-205B	10/10/96	<1	<1	<3	<1	<1	<1	<5
W-10	10/15/96	<1	<1	<3	<1	<1	<1	24